CLAIMS

1. Electric wire consisting of a metal able to conduct the current, the outer surface of which is covered in a layer of alloy containing tin, antimony and copper.
2. Wire according to claim 1 in which said alloy consists of: tin (74 - 98.9%), antimony (1 - 10%) and copper (0.1 - 10%), said quantities being expressed in weight.
3. Wire according to claim 2 in which said alloy consists of: tin (95%), antimony (4%) and copper (1%), said quantities being expressed in weight.
4. Wire according to claims 1 - 3 in which said wire is a metal wire able to conduct the current.
5. Wire according to claim 5 in which said metal wire is a copper wire.
6. Process for the preparation of a wire according to claims 1 - 5 in which the wire is passed through a flux and left to dry, pre-heated and then dipped in a bath consisting of the molten alloy.
7. Use of a wire according to claims 1 - 5 for the production of connection cables for low level signals, connection cables for power supply, printed circuit tracks and coupling, signal, pulse and power transformers, dipole, array and microstrip antennae, connectors for signals or power supply and for electromagnetic screens.
8. Connection cables for low level signals, connection cables for power supply, printed circuit tracks, coupling, signal, pulse and power transformers, dipole, array and microstrip antennae, connectors for signals or power supply and for electromagnetic screens.
9. Power transformer for electric distribution network, the windings of which are made of a wire according to claims 1 - 5.
10. Transformer according to claim 7 in which the dielectric sheath is made of black silk, woven over the wire itself.